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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/900,713	07/05/2001	Yonglin Huang	15436.249.30.1	3966
22913	7590 01/16/2004		EXAM	INER
WORKMAN NYDEGGER (F/K/A WORKMAN NYDEGGER & SEELEY) 60 EAST SOUTH TEMPLE 1000 EAGLE GATE TOWER			SHAFER, RICKY D	
			ART UNIT	PAPER NUMBER
			2872	
	ECITY, UT 84111		DATE MAILED: 01/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
		09/900,713	HUANG ET AL.
,	Office Action Summary	Examiner	Art Unit
· 		Ricky D. Shafer	2872
Period fo	The MAILING DATE of this commun	ication appears on the cover sheet v	vith the correspondence address
A SH THE - Exte aftet - If th - If NO - Failt - Any earn Status	HORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this comme period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st ure to reply within the set or extended period for reply reply received by the Office later than three months a led patent term adjustment. See 37 CFR 1.704(b). Responsive to communication(s) file	ICATION. s of 37 CFR 1.136(a). In no event, however, may a nunication. 30) days, a reply within the statutory minimum of the latutory period will apply and will expire SIX (6) MC will, by statute, cause the application to become A after the mailing date of this communication, even	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C.§ 133).
2a)⊠	This action is FINAL.	2b)☐ This action is non-final.	
3)	Since this application is in condition closed in accordance with the practi		
Disposit	tion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1-5 and 7-48 is/are pending 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 1-5 and 7-48 is/are rejecte Claim(s) is/are objected to. Claim(s) are subject to restrict	nre withdrawn from consideration.	
	tion Papers	•	
	The specification is objected to by the	aa Evaminar	
·	The drawing(s) filed on <u>05 July 2001</u>		cted to by the Examiner
10/63	Applicant may not request that any obje	, , , , , , , , , , , , , , , , , , , ,	•
		• • • • • • • • • • • • • • • • • • • •	g(s) is objected to. See 37 CFR 1.121(d).
11)	The oath or declaration is objected to	•	
Priority	under 35 U.S.C. §§ 119 and 120	·	
13) X (3) S (4) (14) (14)	See the attached detailed Office action Acknowledgment is made of a claim f	documents have been received. documents have been received in of the priority documents have bee onal Bureau (PCT Rule 17.2(a)). on for a list of the certified copies no for domestic priority under 35 U.S.C ed in the first sentence of the specifi nguage provisional application has for domestic priority under 35 U.S.C	Application No n received in this National Stage of received. S. § 119(e) (to a provisional application) cation or in an Application Data Sheet. been received. S. §§ 120 and/or 121 since a specific
Attachmer	nt(s)		
1)	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (F rmation Disclosure Statement(s) (PTO-1449) P	PTO-948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/20/2003 has been entered.

2. Claims 1-5 and 7-48 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, lines 6-7, claim 9, lines 7-8, claim 22, lines 7-8 and claim 35, line 8, the use of the language "and between the first polarizer and" is nonsensical and/or misdescriptive. The examiner suggests that the above mentioned language be changed to read --after--.

In claims 3, 12 and 25, line 2, the symbols "+/-45" is vague and indefinite. The language of claim must be expressed in the alternative only. The examiner suggests that the above mentioned language be changed to read --+45° or -45° --.

In claim 9, line 15 and claim 22, line 19, the language "said optic" lacks proper antecedent basis. The examiner suggests that the above mentioned language be changed to read - an optic--.

Claim 30 is vague, indefinite and/or confusing. It is unclear to the examiner how the above mentioned language is considered to further limit the subject matter of claim 22, lines 13 to 15. The examiner suggests canceling the claim.

In claim 41, line 8, the use of the language "between the means for separating light and" is nonsensical and/or misdescriptive. The examiner suggests that the above mentioned language be changed to read --after--.

In claim 41, line 14, the language "said optical plane" lacks proper antecedent basis. The examiner suggests inserting the language -- and includes an optical plane-- after "refracting".

In claim 42, line 3, "said second polarizer" lacks proper antecedent basis. The examiner suggests that the above mentioned language be changed to read --said optical isolator--.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 41-46 and 48 are rejected under 35 U.S.C. 102(b) as being anticipated by Shirai et al ('853).

To the extent the claims are definite, Shirai et al discloses an optical isolator comprising means (5) for separating light traveling in a forward direction into at least one o-ray and at least one e-ray, means (6) for rotating the polarization of the at least one o-ray and the at least one e-ray, means (7) for refracting the at least one o-ray and the at least one e-ray and means for passing the at least one o-ray and the at least one e-ray through a correction element (8), wherein the input face of the correction element is parallel to the input face of the means for refracting

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and the optical plane of the correction element is perpendicular to the optic axis of the means for refracting (see column 4, lines 43-26), note Fig. 7 along with the associated description thereof, wherein the correction element inherently compensates for differential group delay and walk-off introduced by the means for separating and the means for refracting as well as having a walk off distance between the o-ray and the e-ray being approximately equal to the length of the correction element multiplied by the tangent of an angle (β) due to the fact the rays are synthesized at the output to obtain a single laser beam.

Claims 9, 11, 13, 14, 20, 21, 35, 37, 41, 43, 47 and 48 are rejected under 35U.S.C. 102(b) as being anticipated by Pan et al ('692).

To the extent the claims are definite, Pan et al discloses an optical isolator comprising a first polarizer (12) having a wedge shape for separating light traveling in a forward direction into at least one o-ray and at least one e-ray, a polarization rotator (13) for rotating the polarization of the at least one o-ray and the at least one e-ray, a second polarizer (14) having a wedge shape for refracting the at least one o-ray and the at least one e-ray and a correction element (20) for passing the at least one o-ray and the at least one e-ray, wherein the input face of the correction element is parallel to the input face of the means for refracting and the optical plane of the correction element is perpendicular to the optic axis of the means for refracting (see column 6, lines 16-25), note Fig. 5 along with the associated description of figures 2A to 4 and 5B to 7B, wherein the correction element inherently compensates for differential group delay and walk-off

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introduced by the first and second polarizers in order for the rays to be combined to a point on the end of output fiber (18).

6. Claims 1-3, 5, 7, 9, 11, 12, 20, 21, 35, 37, 41, 43, 47 and 48 are rejected under 35 U.S.C. 102(b) as being anticipated by Masuda et al ('431).

To the extent the claims are definite, Masuda et al discloses an optical isolator comprising a first polarizer (36) having a wedge shape for separating light traveling in a forward direction into at least one o-ray and at least one e-ray, a polarization rotator (34) for rotating the polarization of the at least one o-ray and the at least one e-ray, a second polarizer (38) having a wedge shape for refracting the at least one o-ray and the at least one e-ray and a correction element (40) for passing the at least one o-ray and the at least one e-ray, wherein the input face of the correction element is parallel to the input face of the means for refracting and the optical plane of the correction element is perpendicular to the optic axis of the means for refracting (see column 4, lines 29-33), note figures 1-3 along with the associated description thereof, wherein the correction element inherently compensates for differential group delay and walk-off introduced by the first and second polarizers in order for the rays to be combined to a point on the end of output fiber (24).

7. Claim 22 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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- 8. Claims 4, 8, 10, 15-19, 23-34, 36 and 38-40 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 9. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first polarizer having an optic axis of plus or minus 45 degrees must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The examiner suggests that polarizer 206, shown in Fig. 2, be amended to properly illustrate γ1 having an optic axis angle of 45 degrees

10. Claims 5, 9, 10, 15, 35 and 37 are objected to because of the following informalities:

In claim 5, line 3, the language "the angle" should be changed to read --angle--.

In claim 9, line 15 and claim 22, line 19, the language --is-- should be inserted before

"perpendicular".

In claim 10, line 1, the language "lease" should be changed to read --least--.

In claim 10, line 4, the language --at least one-- should be inserted before "e-ray".

In claim 15, line 2, the language "lest" should be changed to read --least--.

In claim 15, line 3, the language "pats" should be changed to read --paths--.

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In claim 35, line 20 and claim 41, line 12, the language --which-- should be inserted after "length".

In claims 37 and 43, line 2, the language "the first" should be changed to read --first--.

Appropriate correction is required.

11. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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12. Any inquiry concerning this communication should be directed to R.D. Shafer at telephone number (703) 308-4813.

RDS

January 11, 2004

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